		Exploring Aero					
		2005 Mathem					
Essential Knowledge and Skills							
Texas Mathematics							
Grade 5	01-1-	04					
Activity/Lesson	State	Standards	describe the relationship between esta of data in				
Fundamentals of			describe the relationship between sets of data in				
Fundamentals of	TV	NA 5 5 A	graphic organizers such as lists, tables, charts,				
Aeronautics (145-176)	TX	MA.5.5.A	and diagrams; and				
Fundamentals of			use tables of related number pairs to make line				
	TV	NA 5 12 A	use tables of related number pairs to make line				
Aeronautics (145-176)	TX	MA.5.13.A	graphs;				
Fundamentals of			graph a given set of data using an appropriate				
Fundamentals of	TV	NAA 5 40 0	graphical representation such as a picture or				
Aeronautics (145-176)	TX	MA.5.13.C	line graph.				
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	TV	NA 5 40 D	connect models for perimeter, area, and volume				
Wings(177-208)	TX	MA.5.10.B	with their respective formulas; and				
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	TV	NAA 5 40 0	select and use appropriate units and formulas to				
Wings(177-208)	TX	MA.5.10.C	measure length, perimeter, area, and volume.				
Onlaw and Filmina	TV	NAA 5 45 A	explain and record observations using objects,				
Science of Flight	TX	MA.5.15.A	words, pictures, numbers, and technology; and				
Integrating with	TV	NAA 5 40 A	make generalizations from patterns or sets of				
Aeronautics	TX	MA.5.16.A	examples and nonexamples; and				
			describe characteristics of data presented in				
Intro to Aeronautics	T) (144 5 40 D	tables and graphs including median, mode, and				
(109-123)	TX	MA.5.13.B	range; and				
Scientific Method(124-		NAA 5 40 A	use tables of related number pairs to make line				
144)	TX	MA.5.13.A	graphs;				
O = i = 1415 = NA = 41 = = 1/4 O A			describe characteristics of data presented in				
Scientific Method(124-	TV	MA 5 40 D	tables and graphs including median, mode, and				
144)	TX	MA.5.13.B	range; and				
		Evaloring Aoro	anautiaa				
		Exploring Aero 2005 Mathen					
		Essential Knowledg					
Texas Mathematics		Essential Knowledg	ge and Skiiis				
Grade 6							
Activity/Lesson	State	Standards					
Activity/Lesson	State	Standards	select and use appropriate units, tools, or				
			formulas to measure and to solve problems				
Fundamentals of			involving length (including perimeter), area,				
Aeronautics (145-176)	TX	MA.6.8.B	time, temperature, volume, and weight;				
Actoriaulics (143-170)	17	IVIA.U.U.D	time, temperature, volume, and weight,				
Fundamentals of			solve problems by collecting, organizing,				
Aeronautics (145-176)	TX	MA.6.10.D	displaying, and interpreting data.				
/ (CIONAUNOS (140-170)	1/	IVIA.U. 1U.D	select tools such as real objects, manipulatives,				
			paper/pencil, and technology or techniques such				
			as mental math, estimation, and number sense				
The Resource Center	TX	MA.6.11.D	to solve problems.				
THE INCOUNCE CENTER	17	IVIA.U.TI.D	solve problems by collecting, organizing,				
Science of Elight	TX	MA.6.10.D	displaying, and interpreting data.				
Science of Flight	17	IVIA.0.10.D	juispiaying, and interpreting data.				

			The student is expected to formulate equations
Integrating with	TV	NAA C 5 A	from problem situations described by linear
Aeronautics	TX	MA.6.5.A	relationships.
Intro to Aeronautics	TV	MA 6 10 D	solve problems by collecting, organizing,
(109-123)	TX	MA.6.10.D	displaying, and interpreting data. select and use an appropriate representation for
			presenting and displaying different graphical
			representations of the same data including line
Scientific Method(124-			plot, line graph, bar graph, and stem and leaf
144)	TX	MA.6.10.A	plot; line graph, bar graph, and stem and lear
Scientific Method(124-		IVIA.U. TU.A	solve problems by collecting, organizing,
144)	TX	MA.6.10.D	displaying, and interpreting data.
Scientific Method(124-	174	100.10.2	validate his/her conclusions using mathematical
144)	TX	MA.6.13.B	properties and relationships.
,			p special participation of the
	1	Exploring Aero	onautics
		2005 Mathen	natics
		Essential Knowledge	ge and Skills
Texas Mathematics			
Grade 7			
Activity/Lesson	State	Standards	
Fundamentals of	T) (7.0.4	use angle measurements to classify pairs of
Aeronautics (145-176)	IX	MA.7.6.A	angles as complementary or supplementary;
			estimate measurements and solve application problems involving length (including perimeter
Fundamentals of			and circumference) and area of polygons and
Aeronautics (145-176)	TY	MA.7.9.A	other shapes;
Acionaulios (143-170)		IVIA.1.3.A	ottler strapes,
			select and use an appropriate representation for
			presenting and displaying relationships among
			collected data, including line plot, line graph, bar
Fundamentals of			graph, stem and leaf plot, circle graph, and Venn
Aeronautics (145-176)	TX	MA.7.11.A	diagrams, and justify the selection; and
Fundamentals of			make inferences and convincing arguments
Aeronautics (145-176)	TX	MA.7.11.B	based on an analysis of given or collected data.
			graph data to demonstrate relationships in
			familiar concepts such as conversions,
Min an (177, 200)	TV	MA 7 4 D	perimeter, area, circumference, volume, and
Wings(177-208)	TX	MA.7.4.B	scaling; and use models, such as concrete objects, pictorial
			models, and number lines, to add, subtract,
			multiply, and divide integers and connect the
The Resource Center	TX	MA.7.2.C	actions to algorithms;
s recourse conter		1417 1.7 .2.0	select tools such as real objects, manipulatives,
			paper/pencil, and technology or techniques such
			as mental math, estimation, and number sense
The Resource Center	TX	MA.7.13.D	to solve problems.
		-	represent multiplication and division situations
			involving fractions and decimals with models,
Integrating with			including concrete objects, pictures, words, and
Aeronautics			

			use models, such as concrete objects, pictorial
			models, and number lines, to add, subtract,
Integrating with			multiply, and divide integers and connect the
Aeronautics	TX	MA.7.2.C	actions to algorithms;
Integrating with	17	1417 (. 7 . 2 . 0	estimate and find solutions to application
Aeronautics	TX	MA.7.3.A	problems involving percent; and
7 toronautioo	174	1717 (.7 .0.3 (communicate mathematical ideas using
			language, efficient tools, appropriate units, and
Integrating with			graphical, numerical, physical, or algebraic
Aeronautics	TX	MA.7.14.A	mathematical models; and
Intro to Aeronautics	174		make inferences and convincing arguments
(109-123)	TX	MA.7.11.B	based on an analysis of given or collected data.
Scientific Method(124-			make inferences and convincing arguments
144)	TX	MA.7.11.B	based on an analysis of given or collected data.
Scientific Method(124-	111		validate his/her conclusions using mathematical
144)	TX	MA.7.15.B	properties and relationships.
	1	Exploring Aero	onautics
		2005 Mathen	
		Essential Knowledge	ge and Skills
Texas Mathematics			
Grade 8			
Activity/Lesson	State	Standards	
			predict, find, and justify solutions to application
Fundamentals of			problems using appropriate tables, graphs, and
Aeronautics (145-176)	TX	MA.8.5.A	algebraic equations; and
			describe the resulting effects on perimeter and
			area when dimensions of a shape are changed
Wings(177-208)	TX	MA.8.10.A	proportionally; and
The Tools of			select and use different models to simulate an
Aeronautics	TX	MA.8.11.C	event.
			compare and order rational numbers in various
			forms including integers, percents, and positive
The Resource Center	TX	MA.8.1.A	and negative fractions and decimals;
			select tools such as real objects, manipulatives,
			paper/pencil, and technology or techniques such
-	>		as mental math, estimation, and number sense
The Resource Center	TX	MA.8.14.D	to solve problems.
The December Comton	TV	MA 0 4 E	compare and order real numbers with a
The Resource Center	TX	MA.8.1.E	calculator.
Intograting with			generate a different representation of data given
Integrating with	TV	NAA O 4 A	another representation of data (such as a table,
Aeronautics	TX	MA.8.4.A	graph, equation, or verbal description).
Integrating with			predict, find, and justify solutions to application problems using appropriate tables, graphs, and
Integrating with Aeronautics	TX	MA.8.5.A	algebraic equations; and
ACIUIIAUIICS	17	A.C.O.Aivi	select tools such as real objects, manipulatives,
			paper/pencil, and technology or techniques such
Integrating with			as mental math, estimation, and number sense
Aeronautics	TX	MA.8.14.D	to solve problems.
Scientific Method(124-	17	IVIA.0.14.D	draw conclusions and make predictions by
144)	TX	MA.8.12.B	analyzing trends in scatterplots; and
177)	11	IVIA.0. IZ.D	analyzing lichus in scallerpicis, and

			select and use an appropriate representation for presenting and displaying relationships among collected data, including line plots, line graphs, stem and leaf plots, circle graphs, bar graphs, box and whisker plots, histograms, and Venn
Scientific Method(124-			diagrams, with and without the use of
144)	TX	MA.8.12.C	technology.